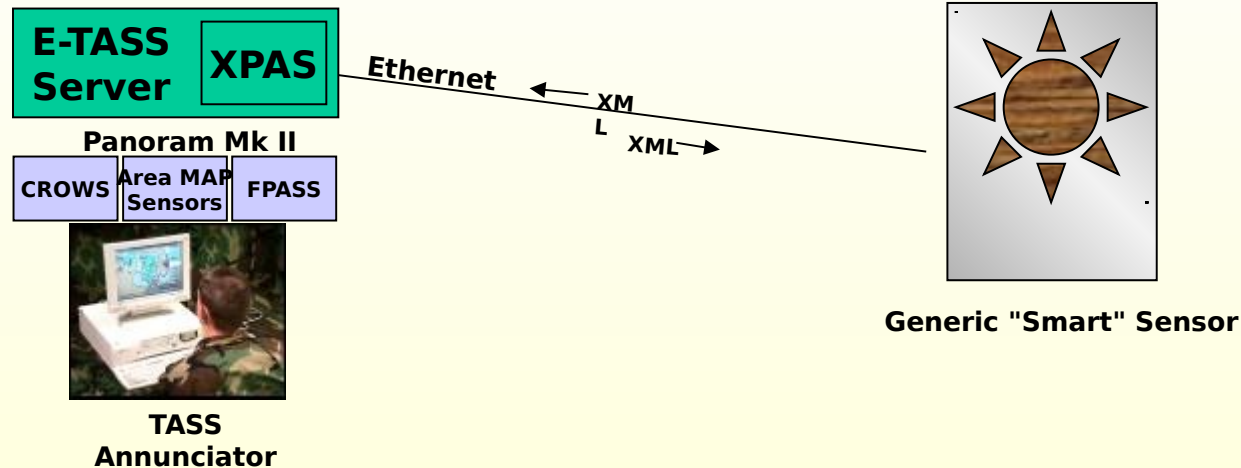




Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

# TASS XML Communication To A Generic "Smart" Sensor

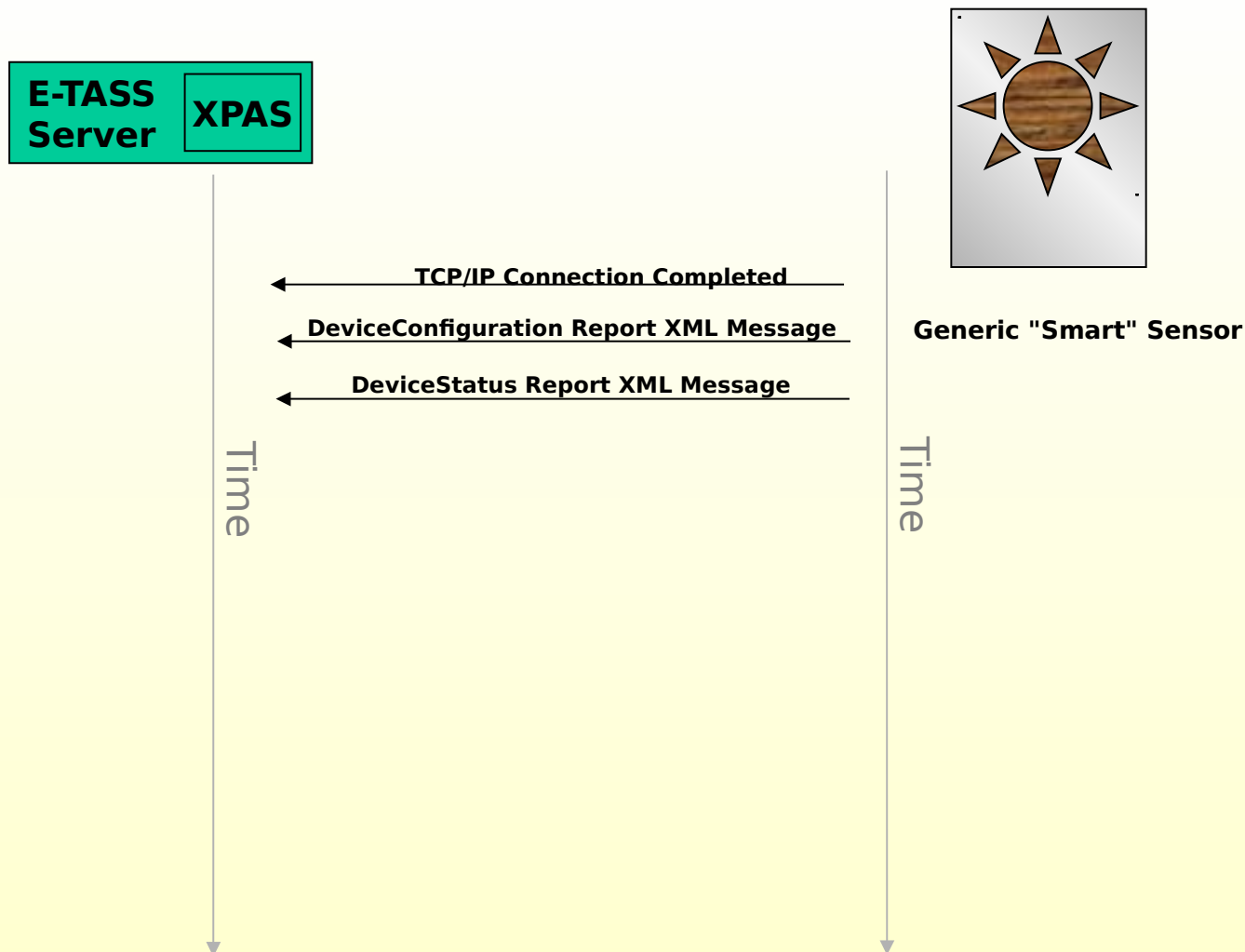


**XPAS = XML Proxy Agent Server: The gateway for all Ethernet based sensors to relay information into the eTASS Server.**



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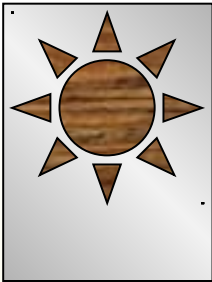
# Generic "Smart" Sensor Connects And Introduces Itself





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

# INI file on Generic "Smart" Sensor defines Identification Values



Generic "Smart" Sensor

## Generic "Smart" Sensor.INI

' IP Address and Port of Server Generic "Smart" Sensor will connect to

**[TcpIp]**

**RemoteHost=192.168.1.110**

**RemotePort=666**

' Generic "Smart" Sensor identification values

**[DeviceIdentification]**

**DeviceName=GSS-001**

**Base=ISAF AF**

**Sector=Sector 1**

**DeviceType=Generic\_Smart\_Sensor**

**DeviceCategory=Sensor**

**OEM=GSS\_Corporation**

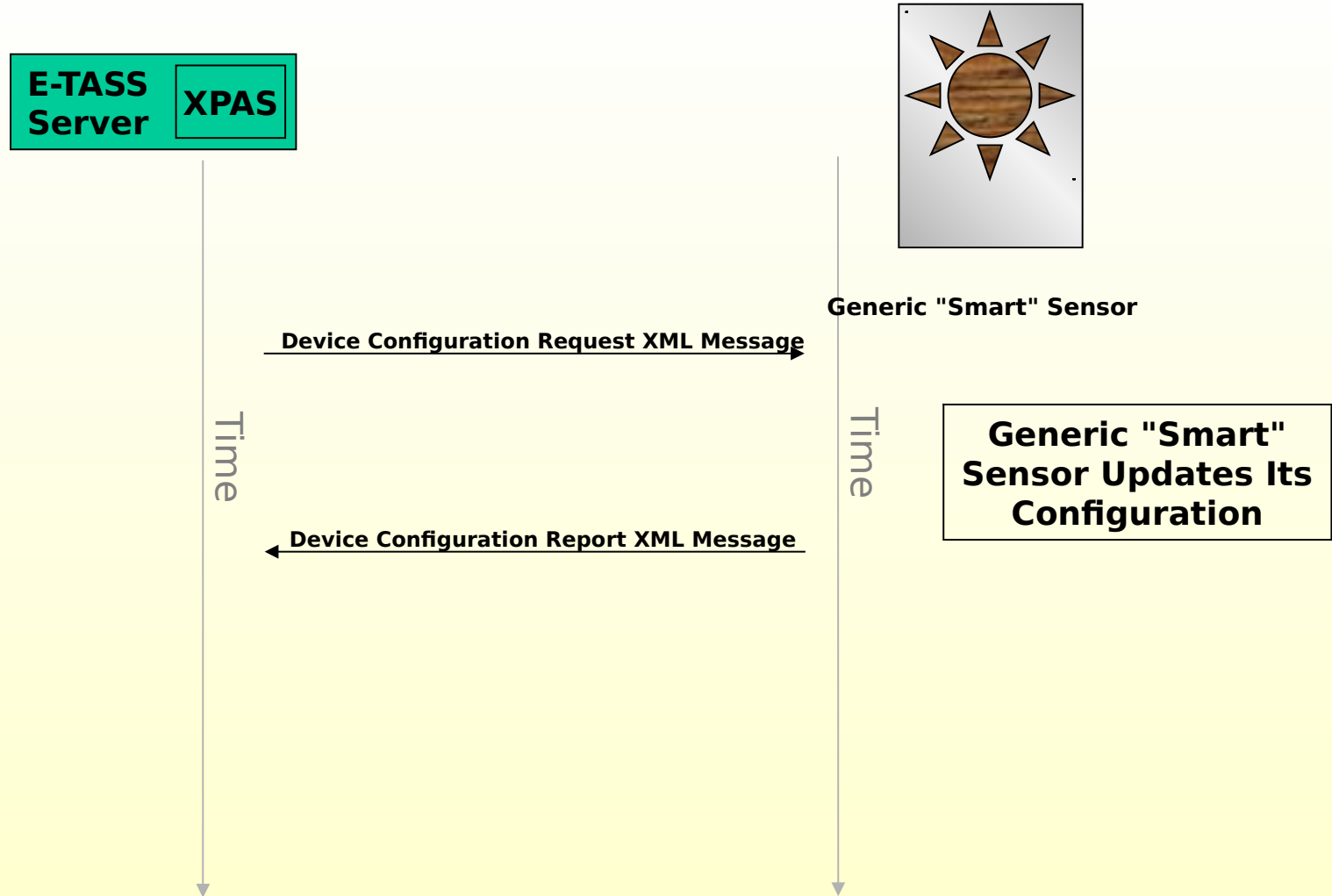
**Model=GSS-31155B**

**SerialNumber=71757-AAA**



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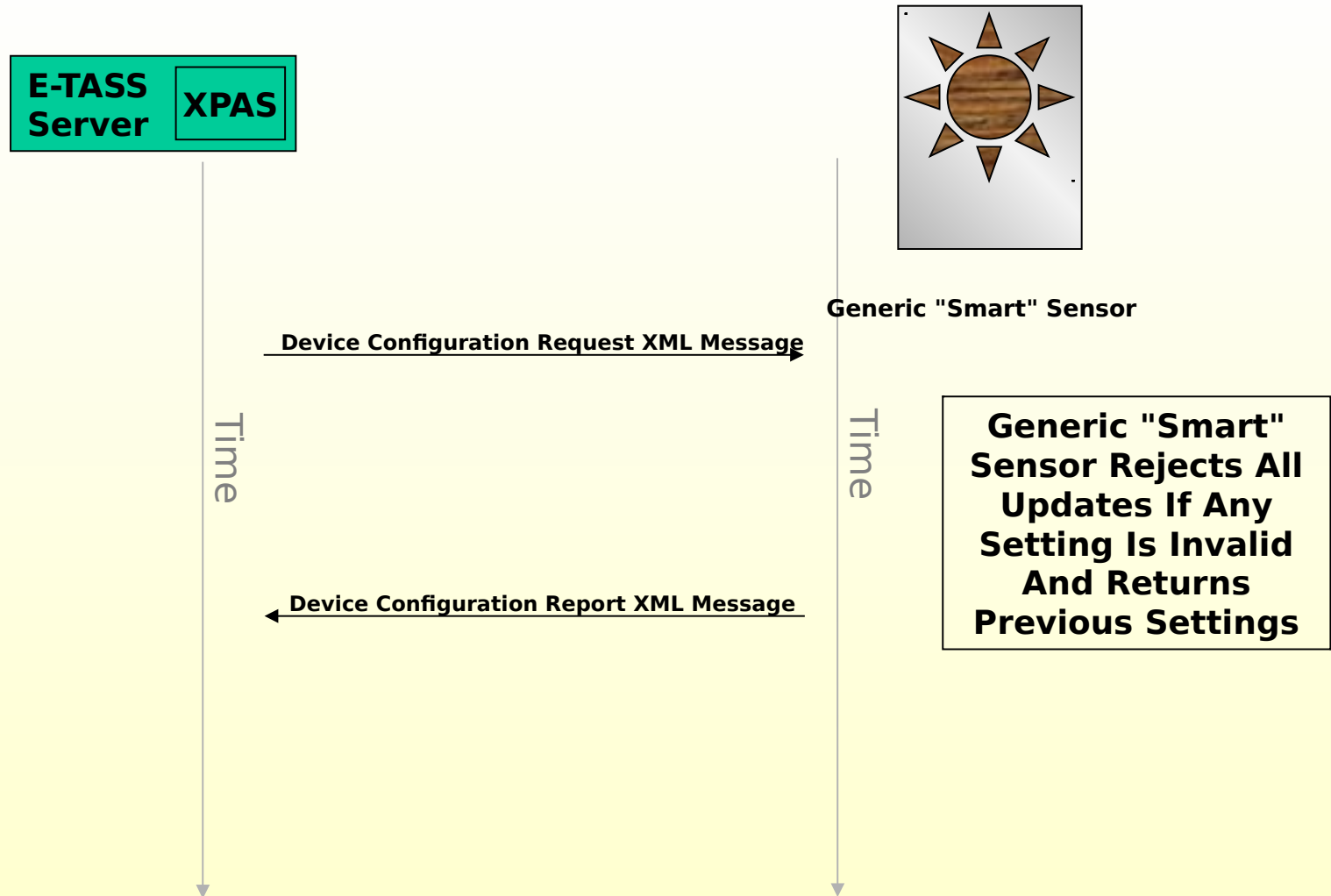
# Valid Configuration Update Sent And Processed





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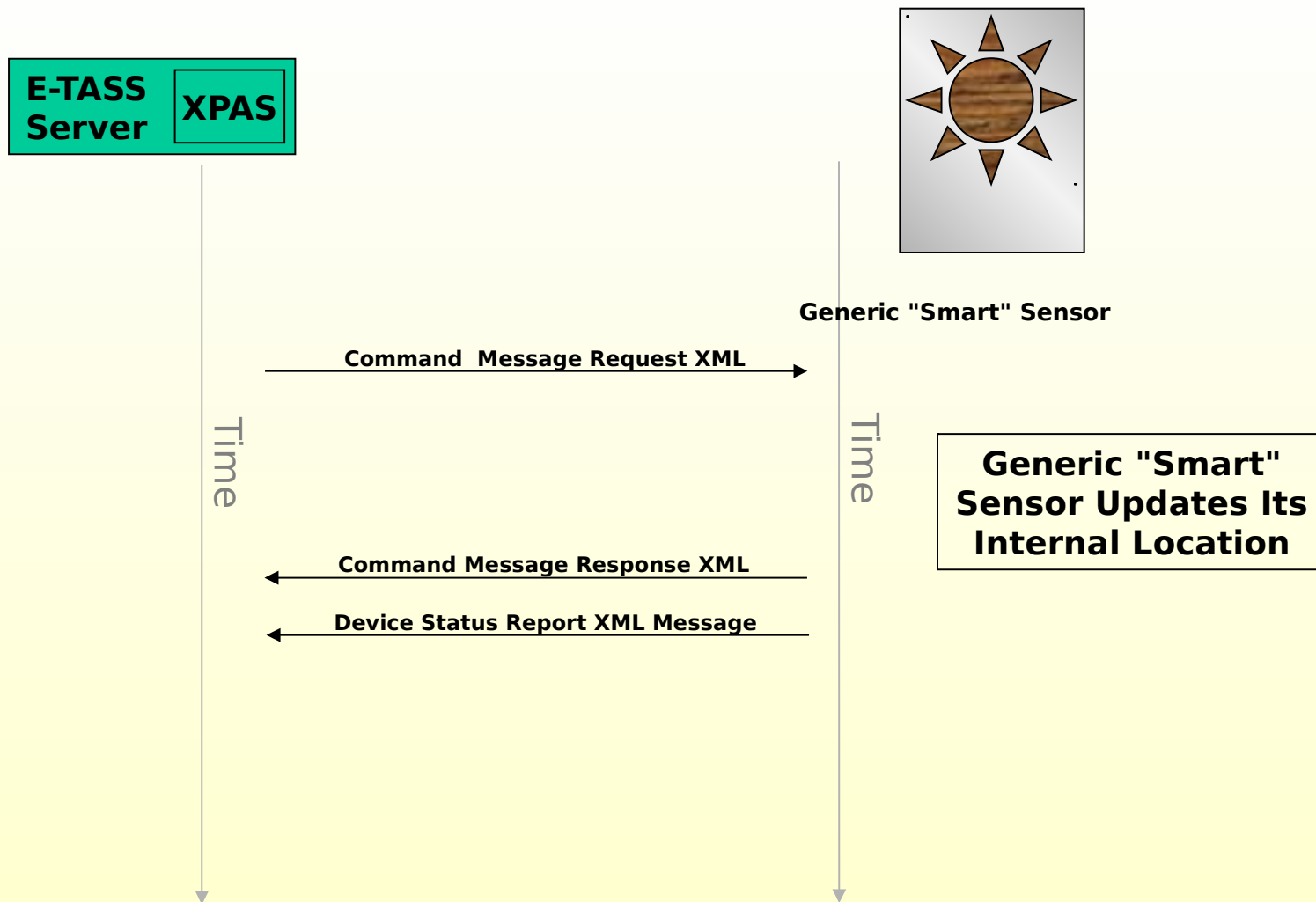
# Invalid Configuration Request Rejected





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

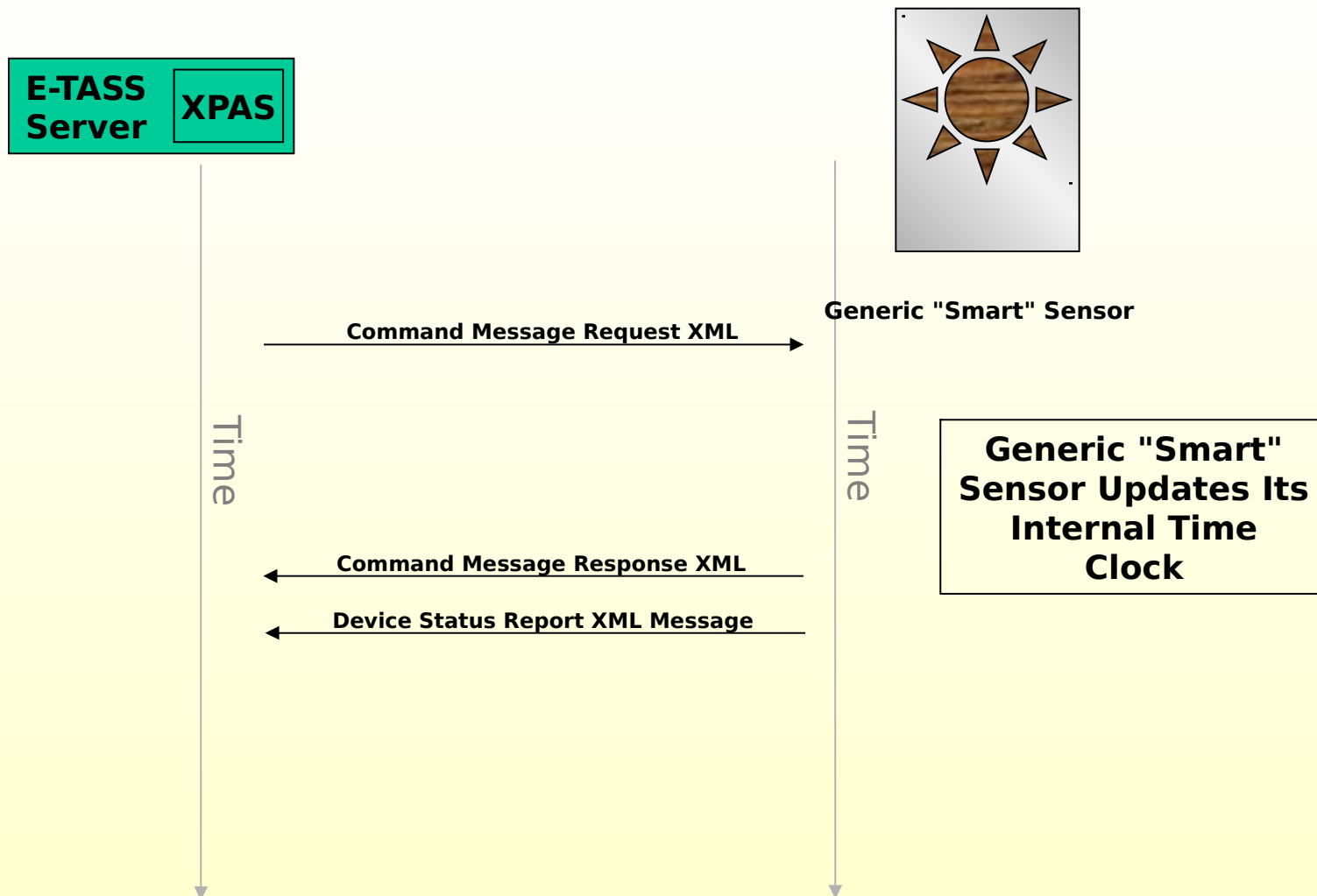
## Location Update Sent And Processed





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

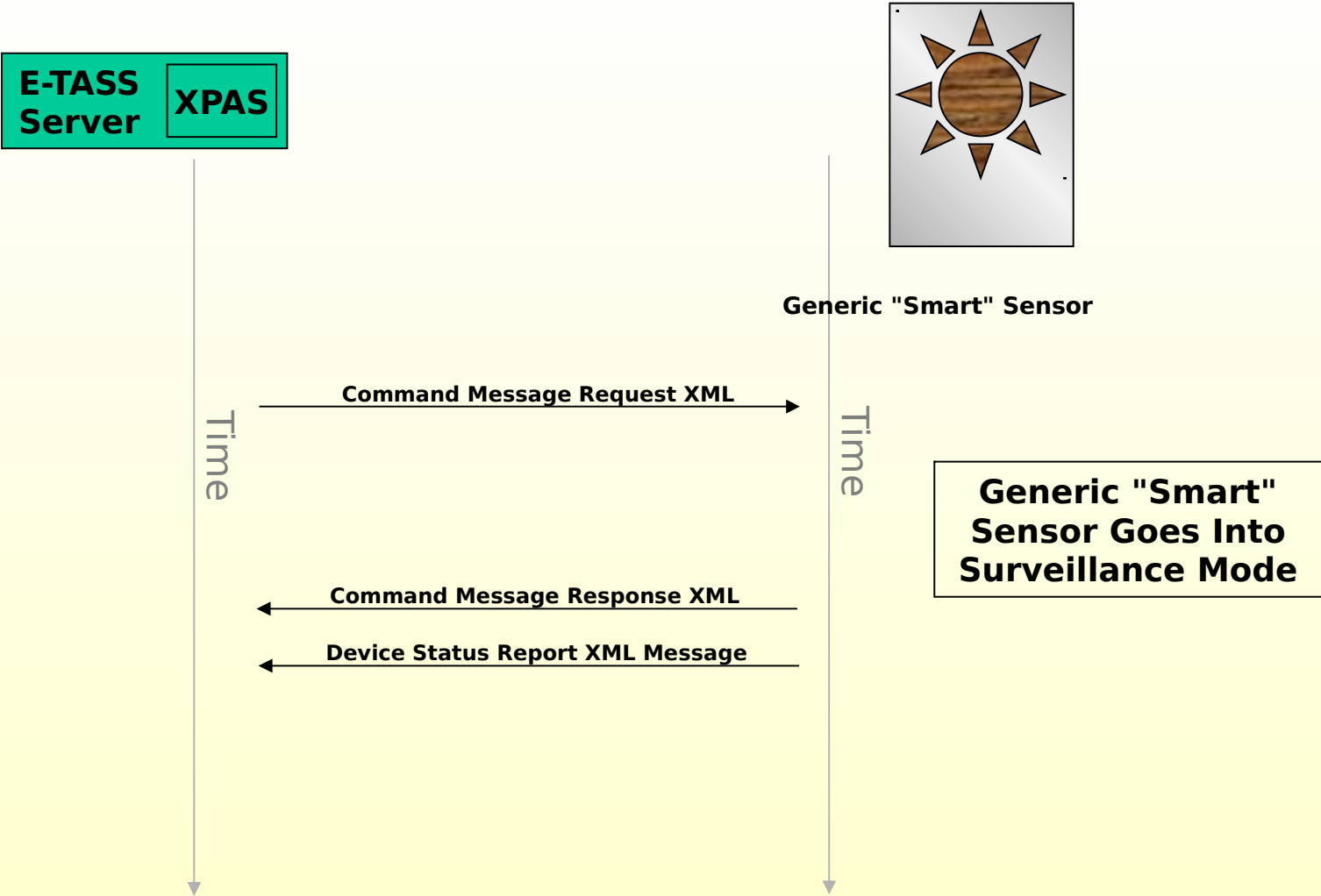
## Time Update Sent And Processed





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

# 'Secure' Command Sent And Processed

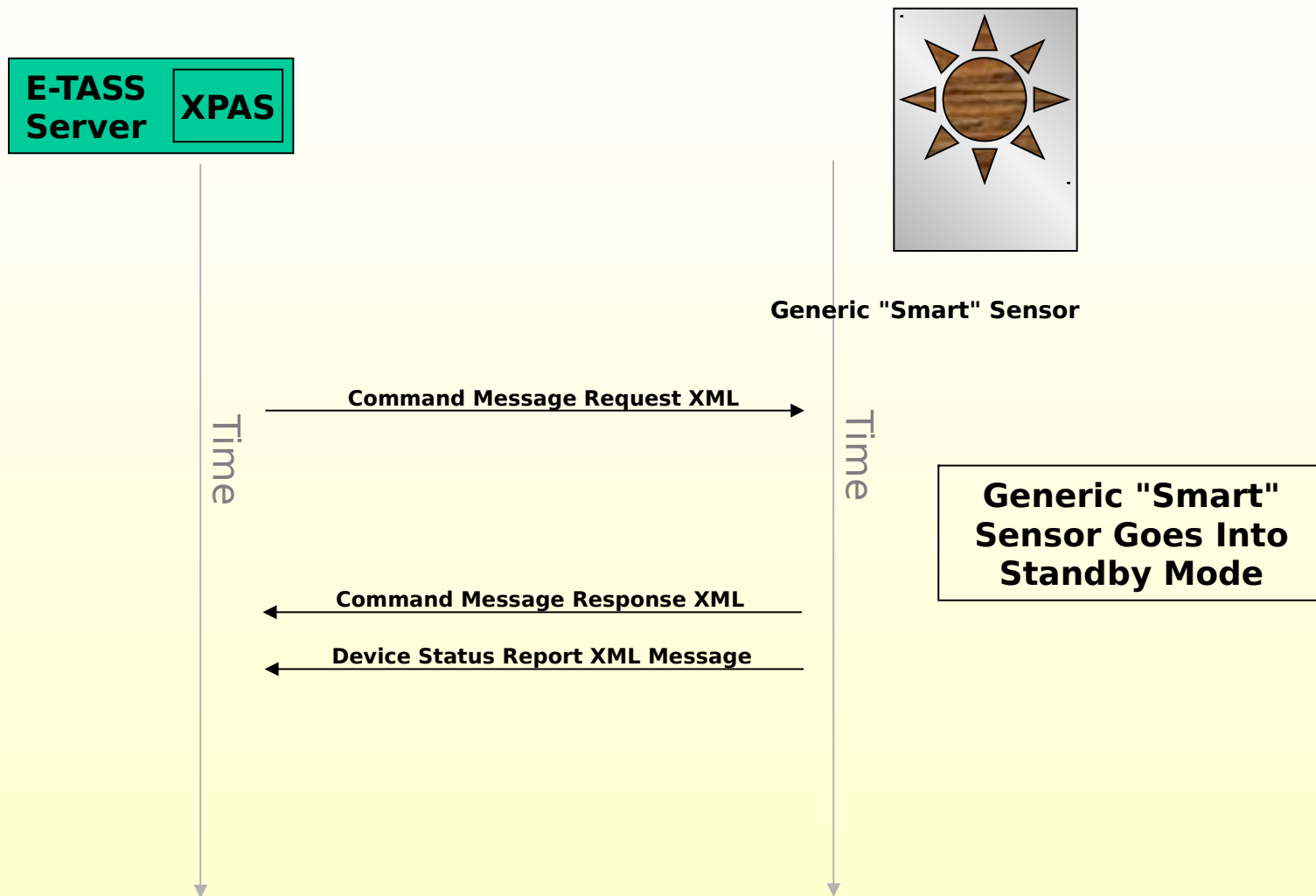






Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

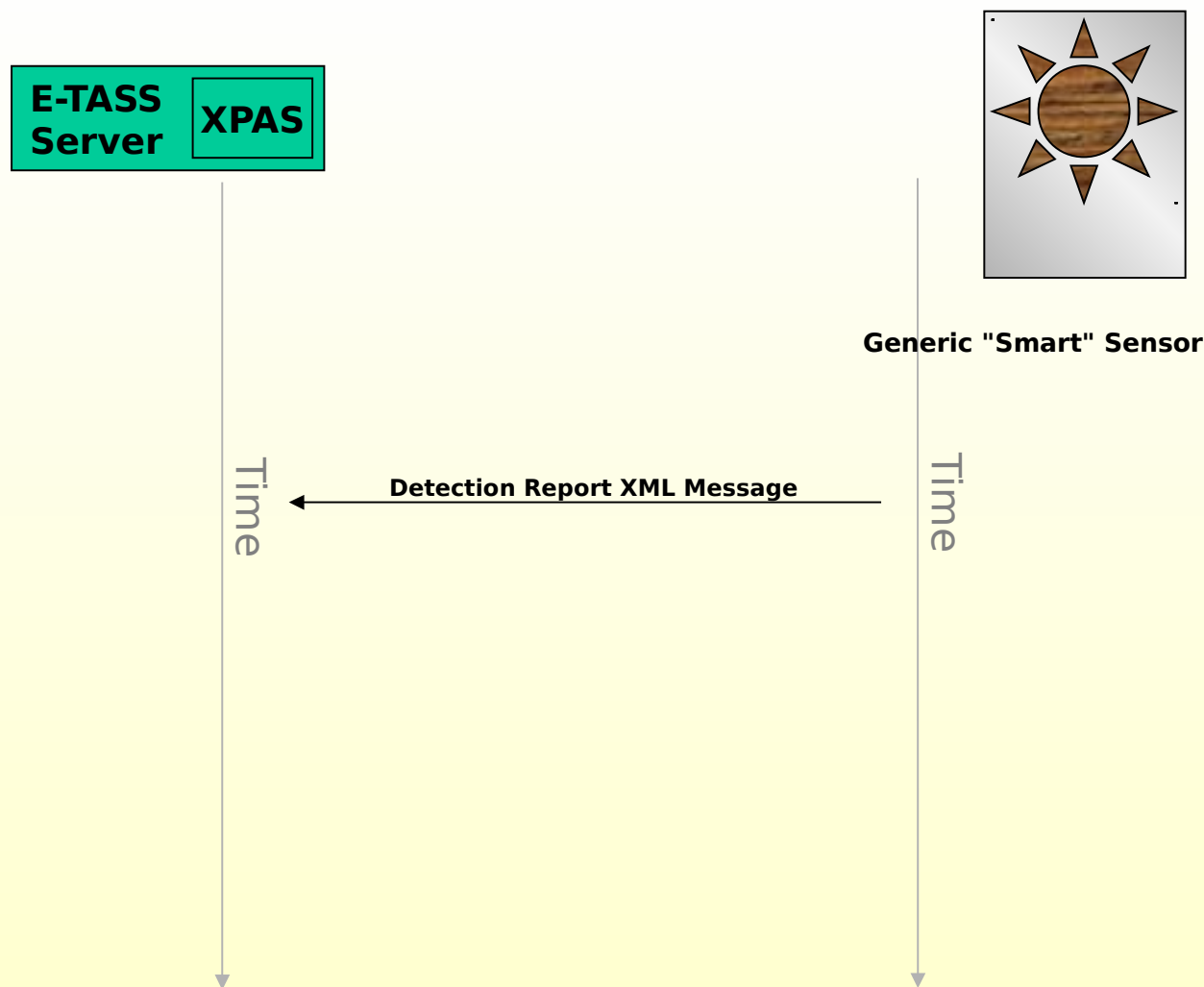
## 'Access' Command Sent And Processed





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

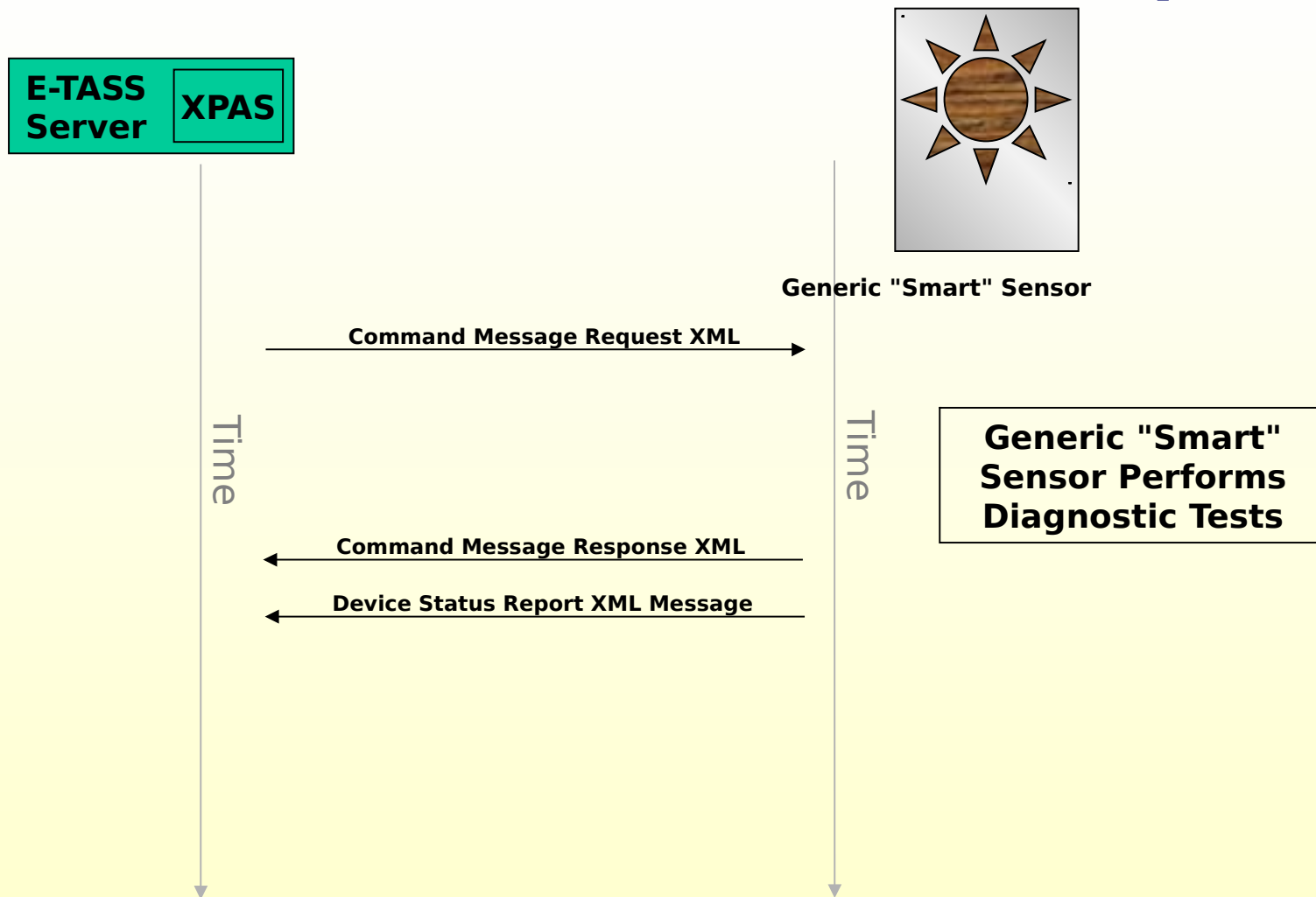
# Generic "Smart" Sensor Detects And Reports Target





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

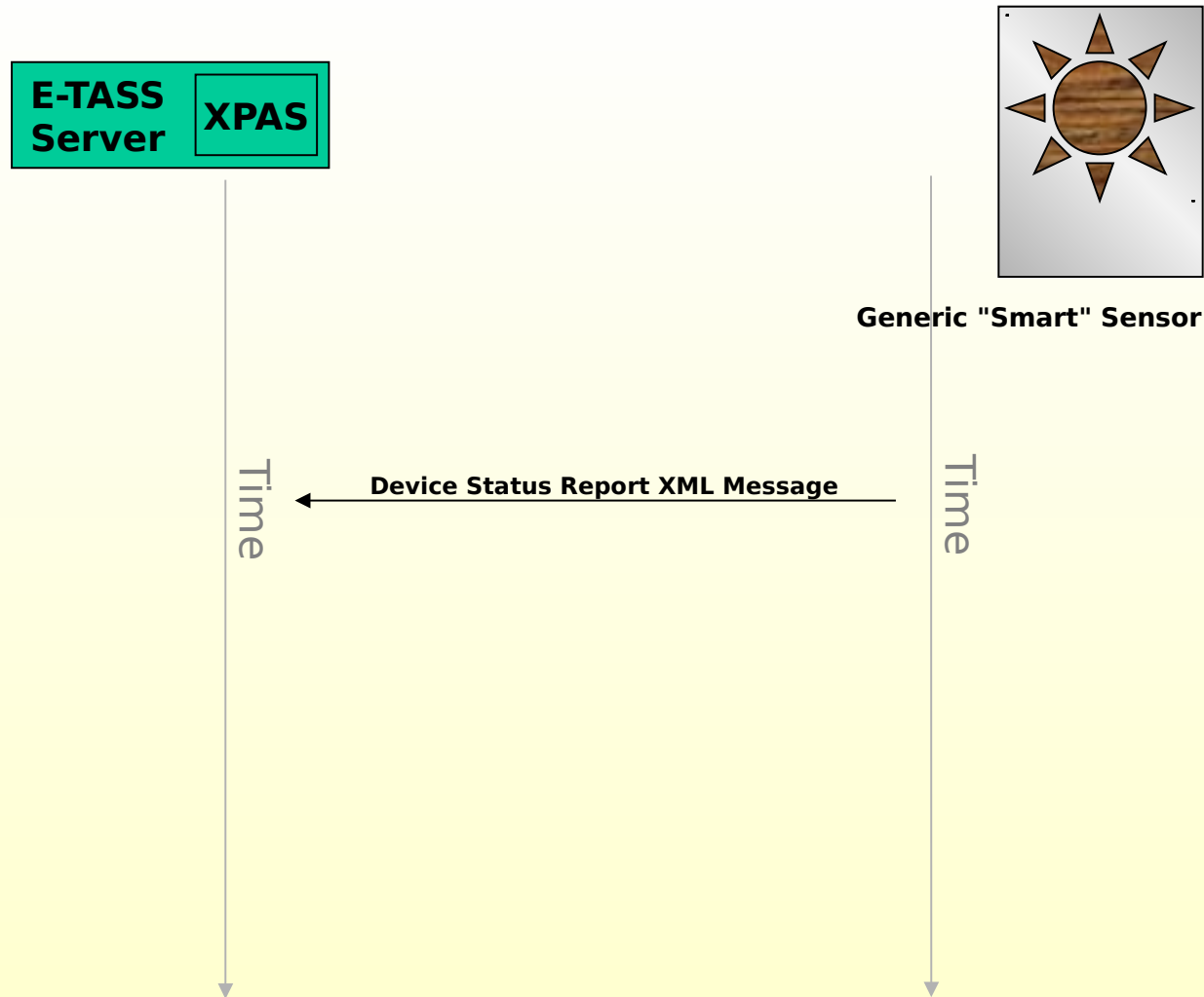
# Generic "Smart" Sensor receives Self-Test Command and Responds





Contents of this briefing based upon work performed by Northrop-Grumman Mission Systems to integrate one of the GBR sensors into their eTASS Annunciator.

# Generic "Smart" Sensor Detects A Critical Fault





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## Notes

- **The self-closing tag <ENDOFXML/> is used to simplify message parsing. Add "<ENDOFXML/>" after every message. See example "Sample - Handshake XML with ENDOFXML tags.txt".**
- **When setting Device Configurations, a Device Configuration message is sent with Type="Request". The response is a Type=Report message.**
- **The Device Configuration Report is always fully populated when sent back from the Generic "Smart" Sensor, including all the selection options. This means every available setting choice is shown in every Report, not just the ones with the Selected attribute set to "true".**
- **We need the available Ranges as a ConfigurationOptionBlock in the Device Configuration Report, even though the ScanSectors have their own minimum and maximum ranges. We use this ConfigurationOptionBlock list to build the range options in our our Device configuration screens.**
- **When the device receives a Configuration or Control Request that contains an invalid setting, the ENTIRE Request should be rejected, no GBR settings updated for the request, and a Configuration Report sent to the XPAS with the Status="Failed" and Details="Reasons why" attributes set (see example "Sample - Device Configuration Report -- w Details on Invalid Setting.xml").**